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NPIC/TSSG/RED/SDB-023-70
21 May 1970

MEMORANDUM FOR THE RECORD

SUBJECT: High Precision Stereo Comparator Program

1. The HPSC Coordinating Group met on 18 May 1970.
In attendance were [redacted] LEG/PHD [redacted]
[redacted] PSG/AID [redacted] TSSG/APSD [redacted]
[redacted] TSSG/RED.

25X1A
25X1A
25X1A
25X1
25X1A
25X1A

2. The following items were discussed:

a. The environmental black box has been
delayed in shipment and has not arrived at the
[redacted] plant as of 18 May.

b. The optical system will be shipped on
21 May instead of 19 May. [redacted]

25X1

c. The acceptance tests on the correlation
system [redacted] are going very well. The testing
is complete and the data is being run through
a computer. This should be completed on 20 May.
[redacted] the [redacted] test engineer, reports that
the area pull-in range of the correlator is much
better than was anticipated.

25X1A
25X1A
25X1A

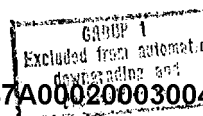
d. [redacted] project manager,
returned [redacted]

25X1A
25X1

e. PHD stated that limiting the upper zoom
range to 25X - 200X instead of 20X - 200X does not
appear to create a serious problem since there is
adequate coverage in the 10X to 100X range.

Declass Review by NIMA/DOD

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f. [] has informed the project monitor that [] storage area has been approved for operational material.

g. PHD is in the process of selecting operational material for use in the pre-acceptance tests [] during the discussion of this material, it was suggested that it might be advantageous to get this material out [] by early August. It could be used [] in debugging his programs and also by NPIC programmers in their on-the-training in mid-August.

h. AID stated that they expect to have the stereo program on-line by the first of October. This will be ready when we need it for the HPSC checkout the latter part of October.

i. The project monitor had a telephone conversation [] on 18 May [] [] stated that the optical tests had gone very well and the only problem areas were in range of reticle adjustment, 2.5 to 1 instead of 4 to 1 (previously reported); vignetting at 20X in the higher zoom range (previously reported) but overcome by limiting the zoom from 25X to 200X; and that distortion had also exceeded the specification at the same 20X point [] gave the following results from the distortion tests [] The specification calls for no more than $\pm 2\%$ of the edge and $\pm 1\%$ at 2/3 of field.

Magnification	2/3	Edge
20	$\pm 1.55\%$	$\pm 3.25\%$
31	± 1.0	± 2.0
37	± 0.8	± 1.5
40	± 0.7	± 1.3
50	± 0.45	± 0.8
63	± 0.4	± 0.6

Distortion tests on the eyepiece alone produced the following figures. The eyepiece is 18mm in diameter.

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Center	0 %
1mm	0
2mm	0
3mm	+0.13
4mm	+0.2
5mm	+0.3
6mm	+0.39
7mm	+0.5
8mm	+0.6

25X1A

25X1A

25X1A

25X1A

j. The project monitor pressed [] on getting the operating manuals and test plan in on schedule. He was not very optimistic about meeting the schedule. The main holdup is in getting a good technical writer to put these items together. [] claims to have interviewed many writers but could not find a satisfactory type. There has not been any progress on the operating manuals since January. [] reports that [] was required by contract to provide [] a test plan prior to the optical acceptance tests but failed to deliver. [] put together his own test plan [].

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k. AID requested that [] be included in the on-the-job programmer training []. This is tentatively scheduled to start 12 August for a two-week period.

25X1A

25X1A

l. Station 954 has notified [] that the Change-in-Scope to add an additional 16K memory to the [] computer has been approved. [] will have to provide an additional half size cabinet to house this additional memory. [] Logistics will have to make provisions for this cabinet to be located in close proximity to the regular computer cabinet. Logistics will have to provide air ducts in the Clean Room to cool this added cabinet. 7

25X1A

25X1

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Distribution:

Original - 11038 File

2 - IEG/PHD

2 - PSG/AID

1 - TSSG/APSD

1 - PPBS

1 - TSSG/SSD

1 - TSSG/RED

1 - TSSG/ESD

1 - TSSG/ESD

25X1A

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